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AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

- (Currently amended) A method for determining beryllium sensitivity of a subject, said method comprising:
 - a. Obtaining a blood sample from a subject.
 - b. Selecting a peripheral blood leukocyte (PBL) population from said blood sample.
 - c. Staining a said peripheral blood leukocyte (PBL) population obtained from said blood sample subject with an intracellular protein stain, wherein said intracellular protein stain comprises carboxy fluorescein diacetate succinimide ester (CTSE);
 - d. Contacting said population with an amount of a beryllium containing compound sufficient to stimulate or enhance proliferation of said population; and
 - e. Measuring the loss of intracellular protein staining, whereby loss of intracellular protein staining indicates proliferation and that a subject is sensitive to beryllium. wherein the method further comprises the step of selecting a subpopulation of said

peripheral blood leukocyte population using a cell surface marker and a viability marker, wherein said surface marker is CD3 and wherein said viability marker enables the exclusion of dead cells that lose [[CFSE]] the intracellular protein stain.

- the exclusion of dead cells that lose [[CFSE]] the intracellular protein stair (Canceled).
- (Previously presented) The method of claim 1, wherein said subject exhibits symptoms associated with Chronic beryllium disease.
- 4.- 8. (Canceled).

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- (Currently amended) The method of claim [[6]] 1, wherein said surface marker comprises a fluorescent agent.
- (Previously presented) The method of claim 1, wherein said beryllium containing compound comprises a beryllium salt.
- (Previously presented) The method of claim 10, wherein said beryllium salt is beryllium sulfate, at a concentration of between about 1 to about 150

 µM.
- (Original) The method of claim 1, wherein said method further comprises comparing the values obtained in step (c) with a standard.

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(Canceled)

- 14. (Withdrawn) A kit for dignosing metal-induced sensitivity in a subject, said kit comprising: an agent which selectively labels intracellular proteins-, an agent that selectively labels cell surface markers on a subpopulation of cells, at least one test metal, at a concentration sufficient to stimulate or enhance proliferation of a population of cells isolated from a subject with metal-induced sensitivity, and the software to analyze the results.
- (Withdrawn) The kit of claim 14, further comprising a medium for isolating leukocytes from peripheral blood.
- (Withdrawn) The kit of claim 14, wherein said agent which selectively labels intracellular proteins is fluorescent.
- (Withdrawn) The kit of claim 16, wherein said agent is CFSE (carboxy fluorescein diacetate succinimide ester).
- (Withdrawn) The kit of claim 14, further comprising an agent said agent selectively labels T lymphocyte cell surface markers.
- (Withdrawn) The kit of claim 18, wherein said agent selectively labels, CD3, CD4, CD8 or a combination thereof and is fluorescent
- (Withdrawn) The kit of claim 14, wherein at least one test metal is Beryllium, Titanium,
 Zirconium, Aluminum, Cobalt, Gold or their respective salts
- 21. (Withdrawn) The kit of claim 14, wherein the test metal is a beryllium compound.
- 22. (Withdrawn) The kit of claim 21, wherein said beryllium compound is a beryllium salt.
- (Withdrawn) The kit of claim 14, wherein said beryllium salt is beryllium sulfate.
- 24. (Withdrawn) The kit of claim 23, wherein said beryllium sulfate is formulated such that the final concentration of said beryllium sulfate is between about 1 to about 150 μM per sample tested.
- (Withdrawn) The kit of claim 14, further comprising at least one standard, obtained from a subject, or pool of subjects, without metal-induced sensitivity
- (Withdrawn) The kit of claim 25, wherein said standard is obtained from a subject, or pool of subjects, without metal-induced sensitivity.

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- 27. (Withdrawn) The kit of claim 25, further comprising a software package, wherein said software package compares the values obtained, with the test subject to determine sensitivity.
- (Previously presented) The method of claim 1, wherein said viability marker is TO-PRO-3.